

UE SYSTEMS

AIRBORNE/STRUCTURE BORNE

CAT I CERTIFICATION

Conforming to the classroom requirement of ASNT Recommended Practice, SNT-TC-1A and are in accordance with ISO 183436-8 & 18436-3. The course offers 32 hours of instruction and online sessions with a written examination. This is a comprehensive online course in which the theory, principles and practices of Airborne/Structure Borne Ultrasound Technology are taught. Instructors for this course have been selected for their outstanding comprehension, experience and technical expertise in the field of Airborne/Structure Borne Ultrasound. The course was designed by a committee of experts, some of whom were responsible for pioneering and developing the technology.

"Predictive tools are essential to maintain equipment operating at its maximum efficiency and prevent failure before it happens. Equipment tends to wear at normal operational conditions, the main objective of predictive maintenance is to maintain the equipment at its design conditions to increase life expectancy, reduce energy consumption, and eliminate unexpected downtime due to breakages. Ultrasonic inspections as predictive tools in conjunction with other predictive tools, reduces maintenance costs by avoiding unnecessary parts replacements, and reduces operational costs related to increasing energy consumption caused due to friction losses in mechanical equipment, steam and other gas leakages, and electrical losses because of faulty or loosen connections"

One of the requirements for the course is that the attendee have a laptop with the UE Systems DMS Software & Spectralyzer installed.
(Free to download at www.uesystems.com/ or click on the links here below)



Basic Outline, CAT:

Virtual Classroom Days:

- **Day 1: Ultrasound Theory and Leaks.**
- **Day 2: Ultrasound Electrical and Steam**
- **Day 3: Ultrasound Valves, Mechanical, Bearings**
- **Day 4: Ultrasound, Lubrication, Full Ultrasonic Instrument Course and Course Review**
- **Final Exam (Day 5) – within 1 week of completion of online course**

Who Should Attend This Course?

Any Inspector seeking to advance their knowledge in Airborne/Structure Borne Ultrasound Inspection should attend along with personnel who desire to demonstrate technical and inspection proficiency to their clients or employer. All skill levels are welcomed and encouraged to attend. Management is also encouraged to attend so that they may understand the capabilities of their inspectors and plan a program. Any inspector who wants to proceed to a CAT II certification must first attend and qualify as a CAT I certified inspector.

Requirements for CAT I Certification:

In order to achieve an official certification, classroom training meeting the requirements of SNT-TC-1A must be completed along with successfully passing the General, Specific and Practical Quizzes, and Exam with a score of 80% or better.

Documentation of education or experience must be maintained annually. Hearing acuity must meet the minimum requirement of one ear of less than 25 dBHL (with or without aid.) Hearing acuity examinations must be documented annually. Documented experience signed by a supervisor or superior for 3 months or 210 hours.

Area of application

This document applies to: UE Systems Training Department

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| Document ID | Cat 1 Course outline |
| Confidentiality | External |
| Date: | Language: |
| 2020-03-01 | English-UK |

Additional details

| Original document details | |
|---------------------------|-----------------------|
| Created by: | R. van Dijk / 2020-10 |
| Checked by/Date: | |
| Approvedby/Date: | |
| Revision: | 001 |

Revision table

| Revision | Date | Section | Change |
|----------|---------|----------|------------------|
| 000 | 2020-10 | Complete | Document created |
| 001 | 2020-03 | Complete | reviewed |